## EE 1910

Dr. Johnson

## Homework 6

1 - Identify the type of each expression.
int a,b;
float c,d;
char e,f;
bool g,h;
$\mathrm{a}==\mathrm{b}$
$c+a * b / d-f$
$a>=c-f+a$
$f / b * c<=a * e / b$
$a \% b * c / f \% g$


2 - evaluate each statement and indicate the type of the result.
int $\mathrm{a}=4 ; \quad$ float $\mathrm{c}=1.1 ; \quad$ char $\mathrm{e}=$ ' a '; int $b=5 ; \quad$ float $d=2.2 ; \quad$ char $f=$ ' $C$ '; int foo; float boo; char soo;
$\mathrm{boo}=\mathrm{b}-\mathrm{a} ;$
$\mathrm{boo}=\mathrm{b} * \mathrm{a} ;$
foo $=c / d ;$
boo = b \% (int) c + 2;
foo $=$ (int) b/c * a;
$\square$

$\square$
$\square$


3 - Evaluate the following expressions individually.
int $\mathrm{a}=-3$; int $\mathrm{b}=6$; int $\mathrm{c}=1$; int $\mathrm{d}=-2$;
$a+b>c+d$
$a-2 * b+b>c * 2 / 3$

3* b/4\%5\&\&
$d \& \& c<(b+5) \| b$
$\left(4+5^{*} b>=c-4\right) \& \&(c-2)$

4 - provide a single code statement to achieve each result.
int $a, b, c$;
float d,e,f;
char g, h;
multiply a by 8 without using the * or + operation
if c students share b burritos equally, set a equal to the minimum number of burritos left over
set $d$ equal to the number of whole cups of Cheerios in a box if e is the density of Cheerios in cups/volume and $f$ is the volume in a box

set c equal to 2 if $d$ and $f$ are equal otherwise set c equal to 8 (only operations we covered allowed)

Given that g is any lower case letter, convert it to an upper case character $\square$

